

## NOTICE OF DRAFTSPERSON'S

## PATENT DRAWING REVIEW

**BEST AVAILABLE COPY**The drawing(s) filed (insert date) 11-5-99 are:

A.  approved by the Draftsperson under 37 CFR 1.84 or 1.152.  
 B.  objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.

|  |  |
|--|--|
| 1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings:  | 8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i)  |
| Black ink. Color.<br>Color drawings are not acceptable until petition is granted.<br>Fig(s) _____  | Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) _____   |
| 2. PHOTOGRAPHS. 37 CFR 1.84(b)   | 9. SCALE. 37 CFR 1.84(k)   |
| Pencil and non black ink not permitted. Fig(s) _____<br>1 full-tone set is required. Fig(s) _____<br>Photographs may not be mounted. 37 CFR 1.84(e)<br>Poor quality (half-tone). Fig(s) _____  | Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) _____  |
| 3. TYPE OF PAPER. 37 CFR 1.84(e)   | 10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(l)   |
| Paper not flexible, strong, white, and durable.<br>Fig(s) _____<br>Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Fig(s) <u>7</u><br>Mylar, vellum paper is not acceptable (too thin).<br>Fig(s) _____                | Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality). Fig(s) _____   |
| 4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:  | 11. SHADING. 37 CFR 1.84(m)  |
| 21.0 cm by 29.7 cm (DIN size A4)<br>21.6 cm by 27.9 cm (8 1/2 x 11 inches)<br>All drawing sheets not the same size.<br>Sheet(s) _____<br>Drawings sheets not an acceptable size. Fig(s) _____  | Solid black areas pale. Fig(s) _____<br>Solid black shading not permitted. Fig(s) _____<br>Shade lines, pale, rough and blurred. Fig(s) _____  |
| 5. MARGINS. 37 CFR 1.84(g): Acceptable margins:  | 12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p)   |
| Top 2.5 cm Left 2.5cm Right 1.5 cm Bottom 1.0 cm<br>SIZE: A4 size<br>Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm<br>SIZE: 8 1/2 x 11<br>Margins not acceptable. Fig(s) <u>3C 5A, 10, 8</u><br>Top (T) _____ Left (L) _____<br>Right (R) _____ Bottom (B) _____ | Numbers and reference characters not plain and legible. Fig(s) <u>1-78</u><br>Figure legends are poor. Fig(s) <u>1-78</u><br>Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1)<br>Fig(s) _____<br>English alphabet not used. 37 CFR 1.84(p)(2)<br>Fig(s) _____<br>Numbers, letters and reference characters must be at least .32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3)<br>Fig(s) <u>3A 4A-5B</u> |
| 6. VIEWS. 37 CFR 1.84(h):<br>REMINDER: Specification may require revision to correspond to drawing changes.<br>Partial views. 37 CFR 1.84(h)(2)  | 13. LEAD LINES. 37 CFR 1.84(q)   |
| Brackets needed to show figure as one entity.<br>Fig(s) _____<br>Views not labeled separately or properly.<br>Fig(s) _____<br>Enlarged view not labeled separately or properly.<br>Fig(s) _____  | Lead lines cross each other. Fig(s) _____<br>Lead lines missing. Fig(s) _____  |
| 7. SECTIONAL VIEWS. 37 CFR 1.84(h)(3)  | 14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(t)  |
| Hatching not indicated for sectional portions of an object.<br>Fig(s) _____<br>Sectional designation should be noted with Arabic or Roman numbers. Fig(s) _____  | Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s) _____  |
| 15. NUMBERING OF VIEWS. 37 CFR 1.84(u)   | 16. CORRECTIONS. 37 CFR 1.84(w)  |
| 16. CORRECTIONS. 37 CFR 1.84(w)  | Corrections not made from prior PTO-948 dated _____  |
| 17. DESIGN DRAWINGS. 37 CFR 1.152  | 18. SURFACE SHADING. 37 CFR 1.152  |
|  | Surface shading shown not appropriate. Fig(s) _____<br>Solid black shading not used for color contrast. Fig(s) _____   |

## COMMENTS

REVIEWER J. CHABOT DATE 3-28-02 TELEPHONE NO. 703 305 8420

ATTACHMENT TO PAPER NO. \_\_\_\_\_

**BEST AVAILABLE COPY**